Amendments to the Claims:

Please cancel claims 21-38 and add new claims 39-48 as follows. The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-38 (Cancelled).

Claim 39 (New). An image processing apparatus, comprising:

radiation image forming means for detecting a radiation amount transmitted through an object and forming image data of a radiation image corresponding to the detected radiation amount;

discriminating means for discriminating at least one of a body part of the object and a radiographing orientation for a radiation image formed by the radiation image forming means by processing the image data of the radiation means;

image processing condition memorizing means for memorizing each of a plurality of image processing conditions corresponding to each body part of an object, each of radiographing orientations, or each combination of the body parts and the radiographing orientations;

display means for displaying a plurality of image processing conditions;

image processing condition selecting means for selecting an arbitrary image processing condition from the plurality of image processing conditions displayed on the display means; and

image processing means for applying image processing to a radiation image on the basis of the selected image processing condition;

wherein the image processing condition selecting means reads out a plurality of image processing conditions from the processing condition memorizing means on the basis of a discrimination result obtained by the discriminating means and controls the display means to display the plurality of image processing conditions and the image processing condition selecting means accepts a selection of an arbitrary image processing condition from the displayed image processing conditions.

Claim 40 (New). The image processing apparatus as defined by claim 39, wherein the image processing condition selecting means comprises one or a plurality of image display means, the image processing means applies image processing to the radiation

image and produces a processed image for each of the image processing conditions read out from the image processing condition memorizing means on the basis of the discrimination result of the discriminating means, and the image processing condition selecting means displays the processed images on the image display means together with the image processing conditions applied to the processed images respectively.

Claim 41 (New). The image processing apparatus as defined by claim 39, wherein the image processing condition selecting means displays an image process name to specify the image processing condition.

Claim 42 (New). The image processing apparatus as defined by claim 41, wherein the image process name is indicated by any one of a radiogrpahed body part of an object, a radiographed body part of an object and a radiographing orientation, and a radiographing method.

Claim 43 (New). The image processing apparatus as defined by claim 39, wherein the image processing condition selecting means displays presence/absence information of an image rotation

and presence/absence information of image inversion with regard to each of the image processing conditions or the selected image processing condition.

Claim 44 (New). A method of selecting image processing in an image processing apparatus provided with radiation image forming means for detecting an amount of radiation transmitted through an object and forming image data of a radiation image corresponding to the detected amount; image processing condition memorizing means for memorizing each of a plurality of image processing conditions corresponding to each body section of an object, each of radiographing orientations, or each combination of the body sections and the radiographing orientations; display means for displaying a plurality of image processing conditions; image processing condition selecting means for selecting an arbitrary image processing condition from the plurality of image processing conditions displayed on the display means, and image processing means for applying image processing to a radiation image on the basis of the selected image processing condition; the method comprising the steps of:

discriminating at least one of a body part of the object and a radiographing orientation for a radiation image formed by

the radiation image forming means by processing the image data of the radiation image,

reading a plurality of image processing conditions on the basis of a discrimination result obtained by the discriminating means,

displaying the image processing conditions read out on the display means, and

accepting a selection of an arbitrary image processing condition by the image processing condition selecting means from the image processing conditions displayed on the display means.

Claim 45 (New). The method of selecting image processing as defined by claim 44, the image processing apparatus being further provided with image display means for displaying a radiation image which has been subjected to image processing by the image processing means, the method further comprising steps of:

producing a processed image by applying image processing to the radiation image by the image processing means for each of the image processing conditions read out from the image processing condition memorizing means on the basis of a discrimination result by the discrimination means, and

displaying the processed images on the image display means together with the image processing conditions applied to the processed images respectively.

Claim 46 (New). The method of selecting image processing as defined by claim 44, wherein an image process name to specify an image processing condition is displayed in the image processing condition selecting means.

Claim 47 (New). The method of selecting image processing as defined by claim 46, wherein the image process name is expressed by a radiographed body part of an object, a radiographed body part of an object and the radiographing orientation, or a radiographing method.

Claim 48 (New). The method of selecting image processing as defined by claim 44, wherein presence/absence of an image rotation and presence/absence of image inversion are displayed together with regard to each of the image processing conditions or the selected image processing condition.